Response to Office Action of April 2, 2008

Attorney Docket: ISCAT-005A

Amendments to the Claims:

- 1. (currently amended) A method of producing a vertebrate host mimic for modifying a behavior of arthropods which are parasitic to a vertebrate host, the method comprising the steps of:
 - a. providing <u>a an artificial</u> lipid based media wherein the lipid based media is selected from the group consisting of lard and jojoba bean oil that is not attractive to arthropods which are parasitic to a vertebrate host;
 - b. providing microorganisms, the microorganisms being associated with a skin
 of the host vertebrate and operative to excrete sub-products which modify the
 media upon combination with the lipid based media to produce modified lipid
 based media;
 - c. combining the artificial lipid based media and the microorganisms; and
 - d. collecting the modified lipid based media.
- 2-9 (cancelled)
- 10. (original) The method of Claim 1 wherein the host skin associated microorganisms are generally distributed over the skin of the vertebrate host.
- 11. (original) The method of Claim 10 wherein the host skin associated microorganisms are resident and transient to the skin of the vertebrate host.
- 12. (original) The method of Claim 1 wherein the host skin associated microorganisms are capable of producing proteases, lipases, or cellulaeses.
- 13. (original) The method of Claim 1 wherein the microorganisms are capable of producing enzymes that hydrolyze lipids.
- 14. (original) The method of Claim 1 wherein the microorganisms are capable of producing enzymes that produce fatty acids.
- 15. (original) The method of Claim 1 wherein the microorganisms are capable of producing enzymes that produce fatty alcohols.
- 16. (original) The method of Claim 1 wherein the microorganisms are capable of producing enzymes that produce fatty aldehydes.
- 17. (original) The method of Claim 1 wherein the microorganisms are capable of producing enzymes that produce hydroxyacids.

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- 18. (original) The method of Claim 1 further comprising the step of:
 - e. sterilizing the microorganisms.
- 19. (previously presented) A vertebrate host mimic produced according to the method of Claim 1.
- 20. (currently amended) A trap to ensnare arthropods which are parasitic to vertebrate hosts, the trap comprising:

an arthropod ensnaring device, wherein the arthropod ensnaring device is selected from the group consisting of a dome trap, a cylinder trap, a bucket trap, a box omni trap, a vane trap, and a box trap; and

a vertebrate host mimic disposed adjacent the arthropod ensnaring device, the vertebrate host mimic produced according to the steps of:

- a. providing <u>a</u> an artificial lipid based media that is not attractive to arthropods which are parasitic to a vertebrate host;
- b. providing microorganisms, the microorganisms being associated with a skin of the host vertebrate and operative to excrete sub-products which modify the media upon combination with the lipid based media to produce modified media;
- c. combining the artificial lipid based media and the microorganisms; and
 - d. collecting the modified lipid based media.
- 21. (original) The trap of Claim 20 wherein the vertebrate host mimic is enclosed within the arthropod ensuring device.
- 22. (currently amended) A method of producing a vertebrate host mimic for modifying a behavior of arthropods which are parasitic to a vertebrate host, the method comprising the steps of:
 - e. providing a lipid based media, wherein the lipid based media is selected from the group consisting of lard and jojoba bean oil that is not attractive to arthropods which are parasitic to a vertebrate host;
 - f. providing enzymes, the enzymes being isolated from microorganisms associated with a skin of the host vertebrate and the enzymes being operative

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to modify the lipid based media upon combination with the lipid based media to produce modified lipid based media;

- g. combining the lipid based media and the enzymes; and
- h. collecting the modified lipid based media.
- 23-30 (cancelled)
- 31. (original) The method of Claim 22 wherein the host skin associated microorganisms are generally distributed over the skin of the vertebrate host.
- 32. (original) The method of Claim 31 wherein the host skin associated microorganisms are resident and transient to the skin of the vertebrate host.
- 33. (original) The method of Claim 22 wherein the microorganisms are capable of producing proteases, lipases, or cellulaeses.
- 34. (original) The method of Claim 22 wherein the microorganisms are capable of producing enzymes that hydrolyze lipids.
- 35. (original) The method of Claim 22 wherein the microorganisms are capable of producing enzymes that produce fatty acids.
- 36. (original) The method of Claim 22 wherein the microorganisms are capable of producing enzymes that produce fatty alcohols.
- 37. (original) The method of Claim 22 wherein the microorganisms are capable of producing enzymes that produce fatty aldehydes.
- 38. (original) The method of Claim 22 wherein the microorganisms are capable of producing enzymes that produce hydroxyacids.
- 39. (original) The method of Claim 22 further comprising the step of:
 - e. sterilizing the microorganisms.
- 40. (previously presented) A vertebrate host mimic produced according to the method of Claim 22.
- 41. (currently amended) A trap to ensure arthropods which are parasitic to vertebrate hosts, the trap comprising:

an arthropod ensnaring device, wherein the arthropod ensnaring device is selected from the group consisting of a dome trap, a cylinder trap, a bucket trap, a box omni trap, a vane trap, and a box trap; and

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a vertebrate host mimic disposed adjacent the arthropod ensnaring device, the vertebrate host mimic produced according to the steps of:

- a. providing a lipid based media that is not attractive to arthropods which are parasitic to a vertebrate host;
- b. providing enzymes, the enzymes being isolated from microorganisms associated with a skin of the host vertebrate and the enzymes being operative to modify the lipid based media upon combination with the lipid based media to produce modified lipid based media;
 - c. combining the lipid based media and the enzymes; and
 - d. collecting the modified lipid based media.
- 42. (original) The trap of Claim 41 wherein the vertebrate host mimic is enclosed within the arthropod ensnaring device.
- 43. (previously presented) A method of producing a vertebrate host mimic for modifying a behavior of arthropods which are parasitic to a vertebrate host, the method comprising the steps of:

providing a single lipid selected from the group consisting of glycerides, sterols, sterol esters, sterol phosphates, sterol precursors, wax, wax esters, wax alcohols, and wax aldehydes;

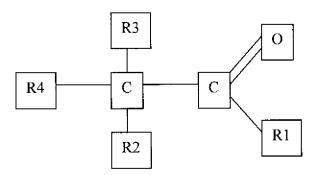
providing microorganisms, the microorganisms being associated with a skin of the host vertebrate and operative to excrete sub-products which modify the media upon combination with the lipid to produce a modified lipid;

combining the lipid and the microorganisms; and collecting the modified lipid.

44. (previously presented) The method of Claim 43 wherein the lipid is a type of glyceride having the formula:

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wherein R1 is selected from the group consisting of Hydroxy, Alkyloxy, Amino, Alkylamino, Dialkylamino, Arylamino, Diaryloxy, Halogen, and Cyano; and wherein R2, R3, and R4 are selected from the group consisting of Hydrogen, Alkyl, and Aryl.

- 45. (cancelled)
- 46. (previously presented) A method of producing a vertebrate host mimic for modifying a behavior of arthropods which are parasitic to a vertebrate host, the method comprising the steps of:

providing a single lipid selected from the group consisting of glycerides, sterols, sterol esters, sterol phosphates, sterol precursors, wax, wax esters, wax alcohols, and wax aldehydes;

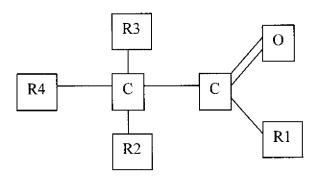
providing enzymes, the enzymes being isolated from microorganisms associated with a skin of the host vertebrate and the enzymes being operative to modify the lipid;

combining the lipid and the enzymes; and collecting the modified lipid.

47. (previously presented) The method of Claim 46 wherein the lipid is a type of glyceride having the formula:

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wherein R1 is selected from the group consisting of Hydroxy, Alkyloxy, Amino, Alkylamino, Dialkylamino, Arylamino, Diaryloxy, Halogen, and Cyano; and wherein R2, R3, and R4 are selected from the group consisting of Hydrogen, Alkyl, and Aryl.

- 48. (cancelled)
- 49. (New) The trap of Claim 20 wherein the lipid based media is selected from the group consisting of lard and jojoba bean oil.
- 50. (New) The trap of Claim 41 wherein the lipid based media is selected from the group consisting of lard and jojoba bean oil.
- 51. (New) A method of capturing parasitic arthropods, the method comprising:
 - a. providing a trap;
 - b. providing a modified lipid based media adjacent to the trap, wherein the modified lipid based media is produced according to the steps:
 - i. providing a lipid based media;
 - ii. providing microorganisms, the microorganisms being associated with a skin of a host vertebrate and operative to excrete subproducts which modify the media upon combination with the lipid based media to produce modified media;
 - iii. combining the lipid based media and the microorganisms; and
 - iv. collecting the modified lipid based media;
 - c. ensnaring at least one arthropod within the trap.

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52. (New) The method of Claim 51 wherein the trap is selected from the group consisting of a dome trap, a cylinder trap, a bucket trap, a box omni trap, a vane trap, and a box trap.

53. (New) The method of Claim 51 wherein the lipid based media is selected from the group consisting of lard and jojoba bean oil.